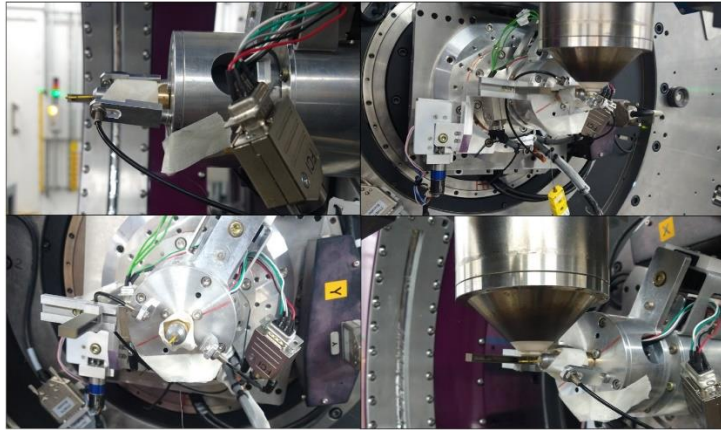


## Calibration curves for in-situ experiments

The temperature calibrations presented in this session were determined with a type K thermocouple fixed to the sample position.

### 1. Experimental setup – **SPINNER**

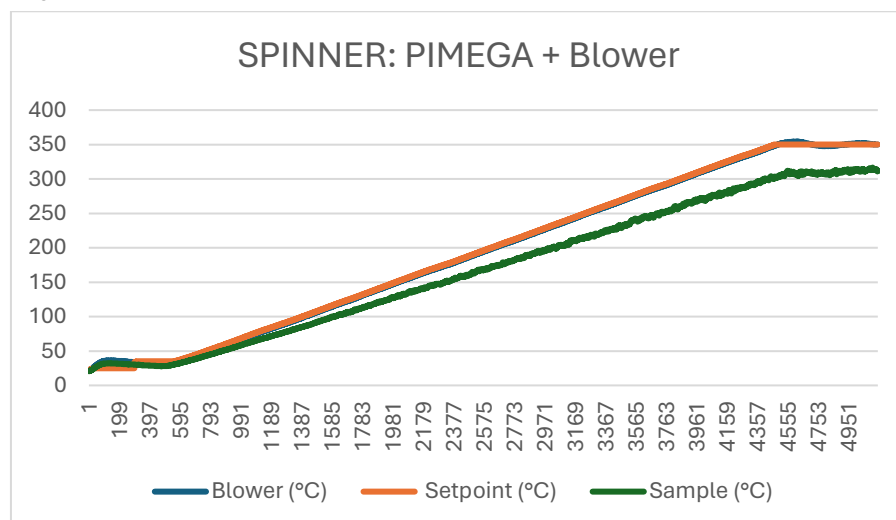
#### a. Setup:



#### b. Data

Setpoint (°C)	Blower (°C)	Sample (°C)	$\Delta T$
50,1	48,6	43,1	5,5
100,1	98,5	85,1	13,4
150	148,4	128,9	19,5
200,1	198,3	172,7	25,6
250	249,1	214,0	35,1
300	298,2	259,7	38,5
350	350	304,2	45,8

#### c. Plot:



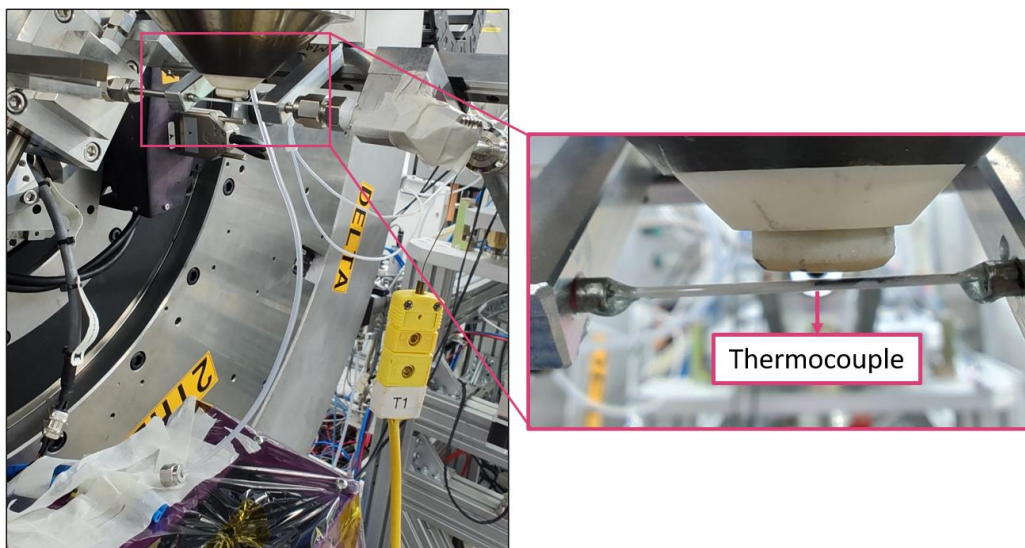
The complete data can be accessed at: [20230711-Blower-Exp.PIMEGA-25-350-ComPatamar350.xlsx](#)

## 2. Experimental setup – Reaction cell

Parameters:

- Heating rate: 5°C/min
- Helium Flow: 5ml/min

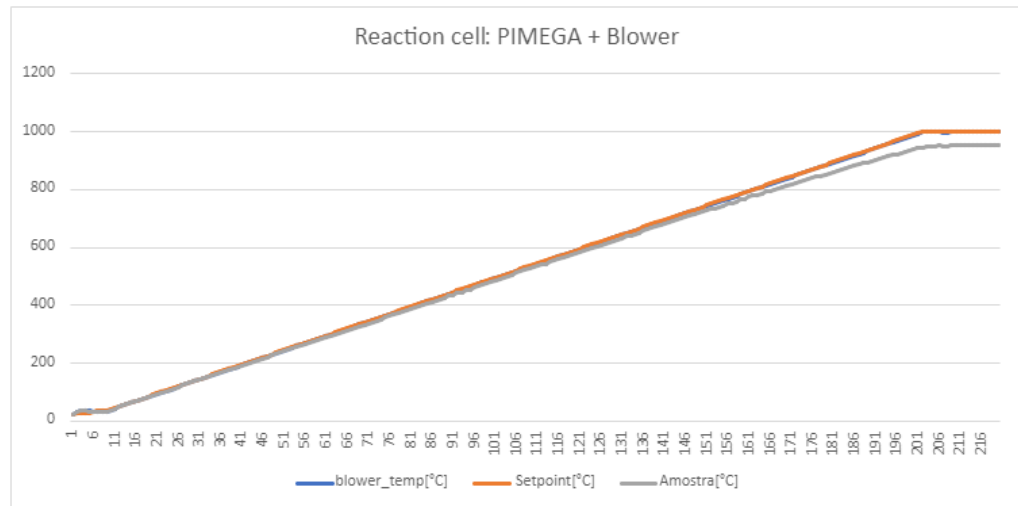
a. Setup:



b. Data

Setpoint (°C)	Blower (°C)	Sample (°C)	$\Delta T$ (°C)
50,4	49,8	49,79999924	0,00
100,4	98,6	98,09999847	0,50
150,5	148,7	147,39999939	1,30
200,5	198,4	196,39999939	2,00
250,5	248,9	245,89999939	3,00
300,5	298,8	293,89999939	4,90
350,6	348,7	342,7000122	6,00
400,6	398,5	393,1000061	5,40
450,7	448,4	442,39999939	6,00
500,7	498,9	492,6000061	6,30
550,7	548,1	540,0999756	8,00
600,7	598,4	590	8,40
650,8	648,6	638,4000244	10,20
700,8	698,3	685,4000244	12,90
750,9	749,1	732,5999756	16,50
800,9	798,5	778,5	20,00
851	848,7	822,0999756	26,60
901	898,7	866,7000122	32,00
950,9	949,7	906,9000244	42,80
999	998,1	950,5999756	47,50

c. Plot:



The complete data can be accessed at: [blower\\_14-05-2024\\_09-34-15.xlsx](#)